

**Abstract****METHODS FOR MANAGING IDENTIFICATION, VERIFICATION, AND VALIDATION  
OF A PLURALITY OF COMPUTING DEVICES**

Embodiments relate to methods, systems, and devices for managing computing device identification. The method includes establishing communication between a processor and computing device. The method includes selecting a first group of applications. The first group of applications includes applications installed on the computing device. The method includes generating a ranked group of applications. The ranked group of applications is generated by ranking two or more applications in the first group of applications. The method includes obtaining a first metadata of each application in the ranked group of applications. The first metadata of each application in the ranked group of applications includes metadata corresponding to a first metadata type. The method includes generating a unique device identifier for the computing device. The unique device identifier is generated based on at least the first metadata of each application in the ranked group of applications.

[FIG. 6]